TTION METHOD OF X-RAY IMAGES Inventors: Gopal B. Avinash et al. Application No. 10/710,391 Attorney Docket No. 153643XZ (GEMS0250PUS) Replacement Sheet Filtered Image I<sub>blended</sub> Generate a Structure Dependent Noise Fig. 4 Within the Blended Image  $G_{TS}$ Intensity Match Values Generate an Adjusted Gradient Value GrA Threshold Value G<sub>TV</sub> Generate a Gradient 126 Structure Dependent Smooth Filter the Normalized Raw Image Data 108 Gradient Mask Gmag Generate a Structure Generate a Conditioned Function Values W<sub>F</sub> Generate Weighted Blended Image -124 Smooth the Structure Mask Mcs Normalized Raw Image Data Modulate the Smoothed **★** Mhcb Low Count Structure Based on Counts Smooth the Normalized ۵ Normalize Raw Raw Image Data Image Data Dependent Noise Filter Data to A'N Image Data and the Structure 201-Blend the Normalized Raw Form a Blended Image Ibur 104 صٌ Generate a Counts-Based LowCountLimit Modulation Mask M<sub>cb</sub> LowCountFlat ď 221 Image Data R Receive Raw 100

Title: COUNT ADAPTIVE NOISE REP